

0500 #11



OIEP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/629,469A

DATE: 07/19/2002

TIME: 15:28:54

Input Set : F:\H107DP4sq.txt

Output Set: N:\CRF3\07192002\I629469A.raw

3 <110> APPLICANT: OTA, TOSHIO
4 ISOGAI, TAKAO
5 NISHIKAWA, TETSUO
6 HAYASHI, KOJI
7 SAITO, KAORU
8 YAMAMOTO, JUNICHI
9 ISHII, SHIZUKO
10 SUGIYAMA, TOMOYASU
11 WAKAMATSU, AI
12 NAGAI, KEIICHI
13 OTSUKI, TETSUJI
15 <120> TITLE OF INVENTION: PRIMERS FOR SYNTHESIZING FULL-LENGTH cDNA AND THEIR USE
17 <130> FILE REFERENCE: 084335/0123
19 <140> CURRENT APPLICATION NUMBER: 09/629,469A
20 <141> CURRENT FILING DATE: 2000-07-28
22 <150> PRIOR APPLICATION NUMBER: JP 1999-248036
23 <151> PRIOR FILING DATE: 1999-07-29
25 <150> PRIOR APPLICATION NUMBER: JP 1999-300253
26 <151> PRIOR FILING DATE: 1999-08-27
28 <150> PRIOR APPLICATION NUMBER: JP 2000-118776
29 <151> PRIOR FILING DATE: 2000-01-11
31 <150> PRIOR APPLICATION NUMBER: JP 2000-183767
32 <151> PRIOR FILING DATE: 2000-05-02
34 <150> PRIOR APPLICATION NUMBER: JP 2000-241899
35 <151> PRIOR FILING DATE: 2000-06-09
37 <150> PRIOR APPLICATION NUMBER: 60/159,590
38 <151> PRIOR FILING DATE: 1999-10-18
40 <150> PRIOR APPLICATION NUMBER: 60/183,322
41 <151> PRIOR FILING DATE: 2000-02-17
43 <160> NUMBER OF SEQ ID NOS: 19025
45 <170> SOFTWARE: PatentIn Ver. 2.1
47 <210> SEQ ID NO: 1
48 <211> LENGTH: 855
49 <212> TYPE: DNA
50 <213> ORGANISM: Homo sapiens
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <222> LOCATION: (661)..(661)
55 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
58 <220> FEATURE:
59 <221> NAME/KEY: misc_feature
60 <222> LOCATION: (693)..(693)
61 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown

P.5

ENTERED

RAW SEQUENCE LISTING

DATE: 07/19/2002

PATENT APPLICATION: US/09/629,469A

TIME: 15:28:54

Input Set : F:\H107DP4sq.txt

Output Set: N:\CRF3\07192002\I629469A.raw

```

64 <220> FEATURE:
65 <221> NAME/KEY: misc_feature
66 <222> LOCATION: (746)..(746)
67 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
70 <220> FEATURE:
71 <221> NAME/KEY: misc_feature
72 <222> LOCATION: (841)..(841)
73 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
76 <220> FEATURE:
77 <221> NAME/KEY: misc_feature
78 <222> LOCATION: (849)..(849)
79 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (854)..(854)
85 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
88 <400> SEQUENCE: 1
89 gcgcttttca ctgacaggcg ctgttcccca cagccagcgc cgcccgccac gtcccagctc      60
91 tcggccaacg gagctgcgcg gcgggtgacc tttccgagcc cagcgcgatg acggtcctt      120
93 gctcccagcc ggcgcagctt cctggacgcc gccagctcgg gctggtgccg ttcccggccgc      180
95 cgcgcgcgcg gacgcgcgctg ctgtggctgc tgcctgctgt gctggccgcc gtggcgccgg      240
97 cgcgcggctg ggagagcgga gacctggagt tgttgactt agtggaggag gtgcagctca      300
99 acttctacca gttcctcggg gtgcagcagg atgcatcatc tgcagacatc agaaaagcat      360
101 atcgtaagct ttcactaact ttacatccag acaagaataa agatgaaaat gcagaaactc      420
103 agtttagaca attggtggcc atttatgaag ttttaaagga tgatgaacga aggcagagggt      480
105 atgatgatat tctgatcaat ggacttccag attggcgaca gcctgtattc tactacagggc      540
107 gggtgagaaa aatgagcaat gctgagctgg cattactctt gttcattatt ctcacagtgg      600
109 gtcattatgc tgtggtttg tcaatctacc tggaaaaaca actggatgaa ctactaagta      660
W--> 111 naaaaaagag agaaaagaaa aaaaagactg gancaagagt gtggatgtat caaaactcgg      720
W--> 113 gtgcttcaga aaaaaaatga aaagantgct gattgaaacc acagtgggca atgatttgct      780
115 ttcaatgcaa aactggggga attttgggtt ttgcccttaa aactaaaaag caattacctc      840
W--> 117 nacctcaanc caang      855
120 <210> SEQ ID NO: 2
121 <211> LENGTH: 685
122 <212> TYPE: DNA
123 <213> ORGANISM: Homo sapiens
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (497)..(497)
128 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (625)..(625)
134 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (634)..(634)
140 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
143 <220> FEATURE:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/629,469A

DATE: 07/19/2002

TIME: 15:28:54

Input Set : F:\H107DP4sq.txt

Output Set: N:\CRF3\07192002\I629469A.raw

144 <221> NAME/KEY: misc_feature
 145 <222> LOCATION: (680)..(680)
 146 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
 149 <400> SEQUENCE: 2
 150 cacaggcaac ttctcactt tgaccaagc tattgacaaa ttttcagcag atggaatgcg 60
 152 tttggctctg gctgatgctg gtgacactgt agaagatgcc aactttgtgg aagccatggc 120
 154 agatgcaggt attctccgtc tgtacacctg ggtagagtgg gtgaaagaaa tggttgccaa 180
 156 ctgggacagc ctaagaagtg gtcctgccag cactttcaat gatagagttt ttgccagtga 240
 158 attgaatgca ggaattataa aaacagatca aaactatgaa aagatgatgt ttaaagaagc 300
 160 tttgaaaaca ggggtttttg agtttcaggc cgaaaagat aagtaccgtg aattggctgt 360
 162 ggaagggatg cacagagaac ttgtgttccg gtttattgaa gttcagacac ttctcctcgc 420
 164 tccattctgt ccacatttgt gtgagcacat ctggacactc ctgggaaagc ctgactcaat 480
 W--> 166 tatgaatgct tcatggngctg tggcagggtcc tgttaatgaa gttttaatac actcctcaca 540
 W--> 168 gtatcttatg gaagtaacac atgaccttag actacgactc aagaactata tgatgccagc 600
 W--> 170 taaaggggaag aagactgaca aacanccect gcanaaagcc ctcacattgc accaacctat 660
 172 gtggcгааааа aactatccan cttggg 685
 175 <210> SEQ ID NO: 3
 176 <211> LENGTH: 755
 177 <212> TYPE: DNA
 178 <213> ORGANISM: Homo sapiens
 180 <220> FEATURE:
 181 <221> NAME/KEY: misc_feature
 182 <222> LOCATION: (568)..(568)
 183 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
 186 <220> FEATURE:
 187 <221> NAME/KEY: misc_feature
 188 <222> LOCATION: (620)..(620)
 189 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
 192 <220> FEATURE:
 193 <221> NAME/KEY: misc_feature
 194 <222> LOCATION: (662)..(662)
 195 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
 198 <220> FEATURE:
 199 <221> NAME/KEY: misc_feature
 200 <222> LOCATION: (718)..(718)
 201 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
 204 <220> FEATURE:
 205 <221> NAME/KEY: misc_feature
 206 <222> LOCATION: (741)..(741)
 207 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
 210 <400> SEQUENCE: 3
 211 agcactctgc gcgccgctc ttctgtgtgt gtttgtctac ttctcctcgc ttccccgcgc 60
 213 ccgccgcgcgc catcatgagg gaaaacgtgc acttgcaggc cgggcagtg gcgaaccaa 120
 215 tcggcgccaa gttttgggag gtgatcagcg atgagcacgg catcgacccc acgggcacct 180
 217 accacgggga cagcgacctg cagctggaac gcatcaacgt gtactacaat gaggccaccg 240
 219 gcggcaagta cgtgccccgc gccgtgctcg tggatctgga gcccggcacc atggactccg 300
 221 tgcgctcggg gcccttcggg cagatcttcc agctgaccca ctccctgggt ggggggactg 360
 223 ggtctgggat ggtaccctc ctcatcagca agatccggga ggagtaccca gacaggatca 420
 225 tgaacacgtt tagtgtggtg ccttcgcccc aagtgtcaga cacagtgggt gagccctaca 480

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/629,469A

DATE: 07/19/2002

TIME: 15:28:54

Input Set : F:\H107DP4sq.txt

Output Set : N:\CRF3\07192002\I629469A.raw

```

227 acgccaccct ctacgtccac cagctcgtag aaaacacaga cgagacctac tgcattgata      540
W--> 229 acgaagctct ctacgacatt tgcttcanaa ccctaaagct gaccacgccc acctatggtg      600
W--> 231 acctgaacca cctgggtgctn gctaccatgg gtgggggtcac cacctgcctg cgcttcccag      660
W--> 233 gncagctcaa tgctgacctg cggaagctgg gtgtaaacad ggtcccgttt cccgggtgta      720
W--> 235 cttcttcatg ccccggtttt ngccccactg aacaa                                755
238 <210> SEQ ID NO: 4
239 <211> LENGTH: 752
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (478)..(478)
246 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (576)..(576)
252 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature
257 <222> LOCATION: (711)..(711)
258 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (721)..(721)
264 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (737)..(737)
270 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
273 <400> SEQUENCE: 4
274 tttcccgcca cggcagtgga gccgacagtg actatgagaa cagcgaagt ggggacccac      60
276 tgctggggct ggaaggaag aggtttctag agctgggcaa agaggaagac ttccaccacg      120
278 agctggaaag cctggatgga gacctagatc ctgggcttcc cagcacagag gatgtcatct      180
280 tgaagacaga gcaggtcacc aagaacattc aggaactgtt gcgggcagcc caggagtcca      240
282 agcatgacag cttcgtgccc tgctcagaga agatccattt ggctgtgacc gagatggcct      300
284 ccctcttccc aaagaggcca gccctggagc cagtgcggag ctactgcgg ctgctcaacg      360
286 ccagcgcccta ccggtgcag agtgagtgcc ggaagacagt gccccagag cccggcgccc      420
W--> 288 cagtggactt ccagctgctg actcagcagg tgatccagtg cgcctatgac atcgccangg      480
W--> 290 ctgccaagca gctggtcacc atcaccaccc gagagaagaa gcagtgcact ctctccccac      540
W--> 292 accctcacct gcaccctagg acctcactgg ccatangagc tgggcccactc cagacattaa      600
W--> 294 tccccacccc aacagagcca ctggcacaag tgcccttagt gctgccacac tcctggcgag      660
W--> 296 ccaggtgccc tgggtgccacc cctgtcgagc ccctaaggat ggggaggtgg nggggcagga      720
W--> 298 nctttctgtc ccccaanatt ccaatggcac ct                                752
301 <210> SEQ ID NO: 5
302 <211> LENGTH: 766
303 <212> TYPE: DNA
304 <213> ORGANISM: Homo sapiens
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING

DATE: 07/19/2002

PATENT APPLICATION: US/09/629,469A

TIME: 15:28:54

Input Set : F:\H107DP4sq.txt

Output Set: N:\CRF3\07192002\I629469A.raw

```

308 <222> LOCATION: (578)..(578)
309 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
312 <220> FEATURE:
313 <221> NAME/KEY: misc_feature
314 <222> LOCATION: (636)..(636)
315 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
318 <220> FEATURE:
319 <221> NAME/KEY: misc_feature
320 <222> LOCATION: (648)..(648)
321 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (712)..(712)
327 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <222> LOCATION: (753)..(754)
333 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
336 <400> SEQUENCE: 5
337 ctatagtcaa gctaattgacc catgtagatg tagtggtgta cctgggtgtcc gtgtccctgt      60
339 gaatgtgtca tgttgtgtctg gcctgattcc ccaacatcag cccagggag ccagcagctg      120
341 gagcagctgt catcttgtga aagcagagtg tccttggtgc tattgattgg gttgttcagt      180
343 caattgcaaa aaaagtggat ctaactgtca atggtagtta tatgataatc ctggagataa      240
345 ataagtgtca agtgaagtat tacttgaatt taggacctga agagagagaa aggggtatga      300
347 gtagttggag ggggaagattt gctatgacaa gctattattc agtgtggtta ttttgtatga      360
349 caggtaagtc tacaggtatc ttttgttaga taaaccagaa attaagcatt ccctttgtaa      420
351 actccaaaca agattttgaa acaccatggt cccccccttat ccacctccaa gatctccagt      480
353 ggatgtctga aaccactgat agtactgaag tctctatata ttatgttttt cccctgtatg      540
W--> 355 taatacatat ctgtgataaa gtttaattta taaattangc acaggaagaa attaacaaaa      600
W--> 357 ataagtaaga atagaacagt tataactata tgttcnatta aaagttangt gaatttgttt      660
W--> 359 tctgtctctc tcaaaatata ctgttgtgct gtgtgttcaa ccatttttga gnttccgttg      720
W--> 361 acctggtgga taacaaaacc acagaaaagt tgnnacttca cataaa      766
364 <210> SEQ ID NO: 6
365 <211> LENGTH: 739
366 <212> TYPE: DNA
367 <213> ORGANISM: Homo sapiens
369 <220> FEATURE:
370 <221> NAME/KEY: misc_feature
371 <222> LOCATION: (499)..(499)
372 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
375 <220> FEATURE:
376 <221> NAME/KEY: misc_feature
377 <222> LOCATION: (621)..(621)
378 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
381 <220> FEATURE:
382 <221> NAME/KEY: misc_feature
383 <222> LOCATION: (674)..(674)
384 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown
387 <220> FEATURE:

```

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.